JS: 2/26/21







June 7, 1989



EXPRESS MAIL-RETURN RECEIPT REQUESTED - B006 866 98N

Document Control Officer
Office of Toxic Substances, TS-793
Document Processing Center
U. S. Environmental Protection Agency
401 M Street, S. W.
Washington, DC 20460

Dear Sir:

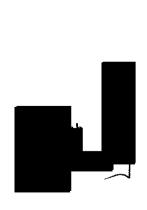
51890000867 P89-867

Enclosed is a Premanufacture Notice for your review. It is provided in two (2) forms:

- The original with confidential portions so marked, and
- 2. A sanitized version for the public files.

The Premanufacture Notice is numbered The PMN fee of \$2,500 has been sent to the H. Q. Accounting Operations Board with the little Highest Hidentifying number on it.

If you need any more information, please contact me.









United States Environmental Protection Agency

PREMANUFACTURE NOTICE FOR NEW CHEMICAL SUBSTANCES

When completed send this form to

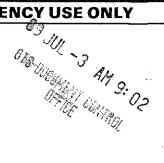
DOCUMENT CONTROL OFFICER OFFICE OF TOXIC SUBSTANCES, TS-793 U.S. E.P.A. 401 M STREET, SW WASHINGTON, D.C. 20460

Enter the total number of pages in the Premanufacture Notice

156

AGENCY USE ONLY

Date of receipt



Document control number 0000867

number 2 867

GENERAL INSTRUCTIONS

You must provide all information requested in this form to the extent that it is known to or reasonably ascertainable by you. Make reasonable estimates if you do not have actual data.



0006677031

Before you complete this form, you should read the "Instructions Manual for Premanufacture Notification" (instructions Manual).

Part I — GENERAL INFORMATION

You must provide the chemical identity of the new chemical substance, even if you claim the identity as confidential. You may authorize another person to submit the identity for you, but your submission will not be complete and review will not begin until EPA receives this information.

Part II — HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE

You may need additional copies of part II, sections A and B if there are several manufacture, processing, or use operations that you will describe in the notice. You should reproduce these sections as needed

Part III - LIST OF ATTACHMENTS

You should attach additional sheets if you do not have enough space on the form to answer a question fully. In part III, list these attachments, any test data or other data, and any optional information that you include in the notice.

OPTIONAL INFORMATION

You may include in the notice any information that you want EPA to consider in evaluating the new substance. The Instructions Manual identifies categories of optional information that you may want EPA to review.

CONFIDENTIALITY CLAIMS

You may claim any information in this notice as confidential. To assert a claim on the form, mark (X) the confidential box next to the information that you claim as confidential. To assert a claim in an attachment, circle or bracket the information you claim as confidential. If you claim information in the notice as confidential, you must provide a sanitized version of the notice, including attachments, to EPA with your submission. For additional instructions on claiming information as confidential, read the Instructions Manual.

Indicate below the categories of information you have claimed as confidential in the notice and the type of notice.

1	X	SUBMITTER IDENTITY
2	X	CHEMICAL IDENTITY
3	X	PRODUCTION VOLUME

5 PROCESS INFORMATION

6 2 PORTIONS OF A MIXTURE 7 X OTHER INFORMATION

X PMN ☐ TMEA

SNUR ☐ Exemption — Specify ~

Other data

Structure/activity relationships

Risk assessments

Test data not in the possession or control of the submitter

TEST DATA AND OTHER DATA

You are required to submit all test data in your possession or control and to provide a description of all other data known to or reasonably ascertainable by you if these data are related to the health and environmental effects of the manufacture, processing, distribution in commerce, use, or disposal of the new chemical substance. Standard literature citations may be submitted for data in the open scientific literature. Complete test data, not summaries of data, must be submitted if they do not appear in the open literature. Following are examples of test data and other data. You should submit these data according to the requirements of §720.50 of the Premanufacture Notification Rule (40 CFR Part 720).

Test data

Environmental fate data

Spectra (UV, visible, and infrared) Density of liquids and solids Water solubility Melting point/melting range Boiling point/boiling range Vapor pressure Partition coefficient, n-octanol/water Biodegradation Hydrolysis (as a function of pH) Photochemical degradation Adsorption/desorption to soil types Dissociation constant Other physical/chemical properties

Health effects data

Mutagenicity Carcinogenicity Teratogenicity Acute toxicity Repeated dose toxicity Metabolism studies Sensitization Irritation

Environmental effects data

Microbial and algal toxicity Terrestrial vascular plant toxicity (e.g., seed germination studies, growth inhibition) Acute and chronic toxicity to animals (e.g., fish, birds, mammals, invertebrates)

e .	C	ERTIFICATION	
	I certify that to the best of my knowledge and b	pelief:	
		section 1a of this notice form intends to manufacture or import for a ntities solely for research and development, the substance identified	
	2. All information provided in this notice is com	plete and truthful as of the date of submission.	
		in my possession or control and a description of all other data known ired by §720.50 of the Premanufacture Notification Rule.	
•		, section A has remitted the fee specified	Γ
	in 40 CFR 700.45(b).		Cont denti
Sig		Date	
Signature of age	nt — (if applicable)	Варе	
	Part I — GF	NERAL INFORMATION	
Section A	- SUBMITTER IDENTIFICATION		Confi
	Mark (X) the "Confidential" box ne	ext to any subsection you claim as confidential.	denti
1a. Person submitting	Name of authorized official		
notice	Company	evicategy & Regulatory Aira	irs A
	Mailing address (number and street)		
•	City State 7ID code		
applicable)	, de	Title	
аррпсавіе)	Company		
•	Mailing address (number and street)		
	Mining address (number and street)		
	City, State, ZIP code		
c. If you are su	bmitting this notice as part of a joint submission,	mark (X) this box.	
	ad a prenotice communication (PC) concerning th		→ [X]
. If you have s	ubmitted a test-marketing exemption (TME) appli overed by this notice, enter the TME number assign	cation for the chemical Mark (X)	
. If you have su	ubmitted a bona fide request for the chemical sub nter the bona fide request number assigned by EP	stance covered by	· X
			<u> </u>
Type of Notice	A. 1.00	nufacture Import	

Page 2

-1			
	Part I — GENERAL INFORMATION — Continued		
Sectio	n B — CHEMICAL IDENTITY INFORMATION		
	Mark (X) the "Confidential" box next to any item you claim as confidential.		
	Complete either item 1 or 2 as appropriate. Complete all other items. If another person will submit chemical identity information for you, mark (X) the box at the right. Identify the name, company, and address of that person in a continuation sheet.	→□	Confi- dential
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	Part I — GENERAL INFORMAT		· <u></u>				
	ection B — CHEMICAL IDENTITY INFORMATION — Continu	ued	····				γ
a.	lymers (For a definition of polymer, see the Instructions Manual.) Indicate the lowest number-average molecular weight composition of the polyme weight percent of low molecular weight species below 500 and below 1,000 absorbed methods of measurement or the bases for your estimates.	r you intend t plute molecul	o manufactu ar weight of	re. Indicat that comp	e the ma osition. E	ximum Describe	Confi- dentia
	N/A						·
Γ-	Mark (X) this box if you attach a continuation sheet.						
b.	You must make separate confidentiality claims for monomer or other reactant ider information. Mark (X) the "Confidential" box next to any item you claim as confidential.	ntity, compos	ition informa	ition, and	residual		·····
	 Provide the chemical name and CAS Registry Number of each monomer or (2) — Mark (X) this column if entry in column (1) is confidential. Indicate the typical weight percent of each monomer or other reactant in the Mark (X) the identity column if you want a monomer or other reactant used of the polymer description on the TSCA Chemical Substance Inventory. Mark (X) this column if entries in columns (3) and (4) are confidential. Indicate the maximum weight percent of each monomer or other reactant manufactured for commercial purposes. Mark (X) this column if entry in column (6) is confidential. 	other reactan ne polymer, at two weigh	nt percent or	less to be	isted as	part	
	Monomer or other reactant and CAS Registry Number	Confi- dential	Typical composition	Identity Mark (X)	Confi- dential	Maximum residual	Confi- dentia
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
			%			%	
			%			%	
			%	<u></u>		%	:
			%	. ,		%	<u>.</u>
			%			%	
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	Mark (X) this box if you attach a continuation sheet.						
c.F	rovide a representative structural diagram of the polymer, if possible.						
						-	
						•	
	•						
	Mark (Y) this hay if you attach a continuation shoot						

	Part I — GENERAL INFORMATION — Continued
Section B — CHEM	ICAL IDENTITY INFORMATION — Continued
commercial purpose	ty that may be reasonably anticipated to be present in the chemical substance as manufactured for es. Provide the CAS Registry Number if available. If there are unidentified impurities, enter "unidentified." sum weight percent of each impurity. If there are unidentified impurities, estimate their total weight percent.
,	
	%
☐ Mark (X) this box if you	u attach a continuation sheet.
6. Generic chemical name	— If you claim chemical identity as confidential, enter the generic chemical name that you developed with EPA during prenotice communication. If you have not developed a generic name with EPA, provide a generic name that reveals the specific chemical identity of the new chemical substance to the maximum extent possible. Read the TSCA Chemical Substance Inventory, Initial Inventory, Volume I for guidance on developing generic names.
Halogenated Alky	yl Aromatic
Mark (X) this box if you	attach a continuation sheet.
	attach a continuation sheet.
FORM EPA-7710-25 (12-18-84)	Page 5

		Part I — GENER	AL IN	IFORM.	TION	– Cont	inued			<u></u>	
	Section C - I	PRODUCTION, IMPORT, AND	USE I	NFORMA	TION						·
厂		Mark (X) the "Confiden	tial'' box	next to any i	tem you	claim as confic	lential.				10
7	. Production volumes in production	me — Estimate the maximum production tion volume for any consecutive 12-mon	volume	during the fire	st 12 mo	nths of produc	tion. Also	o estima	te the		Confi
		m first 12-month production (kg/yr)	tii period	daning the hi		imum 12-mon		ction (kg	/yr)		dentia
Γ											
2	a. (1) — Describe (2) — Mark (X) (3) — Estimate (4) — Mark (X) (5) — Estimate for comm (6) — Mark (X) (7) — Mark (X) (8) — Mark (X)	m first 12-month production (kg/yr) — You must make separate confidentiality clustion of the new substance, and other use each intended category of use of the new this column if entry in column (1) is confit the percent of total production for the first this column if entry in column (3) is confit the percent of the new substance as fornercial purposes at sites under your controthis column if entry in column (5) is confit whether the use is site-limited, industrial, this column if entry(ies) in column (7) is (suctions Manual for examples. Category of use (1)	information of the control of the co	on. Mark (X) that substance ears devoted in mixtures, suited with each colar, or consudential.	of the ca ne "Confi by functi to each spension categor imer. Ma	tegory of use, dential" box ne on and applica category of us s, emulsions, y of use.	he percer xt to any tion. e. solutions	of proditem you of gels on if approved Mark (X)	as mai	nufactured .	
	Mark (X) this b	ox if you attach a continuation sheet.					· · · · · · · · · · · · · · · · · · ·				
	b. Generic use	If you claim any category of use descri- category, Read the Instructions Man					generic (description	on of ti	hat	
	description	Plastic Additive									
						· <u>.</u>					
<u>~</u>		ox if you attach a continuation sheet.									
3 .	mazard Intormatic	On — Include in the notice a copy or reaso other information which will be prov transport, use, or disposal of the new	ided to a	ny person reg	arding pr	otective equip	ment or	practices	s for th	e safe handlir	or ig,
		ox if you attach hazard information.									
MRC	EPA-7710-25 (12-18-84)			Page 6				<u></u>			

Section A — INDUSTRIAL SITES CONTROL	SORE AND ENVIRON	MENTAL RELEASE	
	LED BY THE SUBMITTER		
Complete section A for each type of manufacture, procesubstance at industrial sites you control.	essing, or use operation involving	the new chemical	
Mark (X) the "Confidenti	al'' box next to any item you claim	as confidential.	
Operation description			Conf
e. Identity— Enter the identity of the site at which the operat	tion will occur:		denti
		3	
If the same operation will occur at more than one site, enti-	er the number of sites.	→ ¦	
Identify the additional sites on a continuation sheet. Mark (X) this box if you attach a continuation sheet.			
. Type – Mark (X)	<u> </u>		
1 LXI Manufacturing	2 Processing	3 Use	
. Amount and Duration — Complete 1 or 2 as appropriate			
(3) Identify by number the points of release to the environi	ment of the new chemical substanc	e.	-
	ment of the new chemical substanc	e.	
(a) tocates as manipoli tre bousts of release to trie estation	ment of the new chemical substanc	e.	
for includit of manipul the bounts of release to the environ	ment of the new chemical substanc	e.	
for inclinary of manipular the bounts of release to the environment	ment of the new Chemical substanc	e.	·
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Test countries as manimum rate bounts du relegae to trae étasinom	ment of the new Chemical substanc	e.	
for inclinity of manipul the bounts of release to the environ	ment of the new Chemical substanc	e.	
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Test contacts at manipular true bounts du relegae to true étianom	ment of the new Chemical substance	e.	
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Total and individual and bounts of release to true enaling.	ment of the new Chemical substance	e.	
Test contacts at manipular true bounts for release to true entations.	ment of the new Chemical substance	e.	
Test contacts at manipular true bounts for release to true duality.	ment of the new Chemical substance	e.	
Test contacts at manipulative bounts for release to fine enaments.	ment of the new Chemical substance	e.	

Part II — HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE — Continued Section A — INDUSTRIAL SITES CONTROLLED BY THE SUBMITTER — Continued 2. Occupational Exposure — You must make separate confidentiality claims for the description of worker activity, physical form of the new chemical substance, number of workers exposed, and duration of activity. Mark (X) the "Confidential" box next to any item you claim as confidential. (1) — Describe the activities in which workers may be exposed to the new chemical substance. Include activities in which workers wear protective equipment. (2) - Mark (X) this column if entry in column (1) is confidential. (3) — Indicate the physical form(s) of the new chemical substance at the time of exposure. - Mark (X) this column if entry in column (3) is confidential. (5) - Estimate the maximum number of workers involved in each activity. (6) - Mark (X) this column if entry in column (5) is confidential. (7) and (8) — Estimate the maximum duration of the activity for any worker in hours per day and days per year. (9) - Mark (X) this column if entries in columns (7) and (8) are confidential. Maximum duration Maximum Confi-Confi-Confi-**Physical** Confi-Worker activity dential form(s) dential number dential Hrs/day dential Days/vr (9) (1) (2) (3)(4) (5)(6)(7)(8) Mark (X) this box if you attach a continuation sheet. 3. Environmental Release and Disposal — You must make separate confidentiality claims for the release number and the amount of the new chemical substance released and other release and disposal information. Mark (X) the "Confidential" box next to each item you claim as confidential. (1) - Enter the number of each release point identified in the process description, part II, section A, subsection 1d(3) (2) - Estimate the amount of the new chemical substance released directly to the environment or into control technology (in kg/day or kg/batch). (3) - Mark (X) this column if entries in columns (1) and (2) are confidential. (4) - Identify the media (air, land, or water) to which the new substance will be released from that release point. - Describe control technology, if any, that will be used to limit the release of the new substance to the environment. For releases disposed of on land, characterize the disposal method. Mark (X) this column if entries in columns (4) and (5) are confidential. (7) - Identify the destination(s) of releases to water. Confi-Release Amount of new substance Confi-Media of Control technology dential dential released release Number (2) (3) (4) (5) (6) (1)

(7) Mark (X) the destination(s) of releases to water.	POTW (publicly owned treatment works)	Navigable Other - Specify waterway	
Mark (X) this box if you atta	ch a continuation sheet.		
FOOM 504 3040 05 (40 40 04)		D 0	

Part II — HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE — Continued

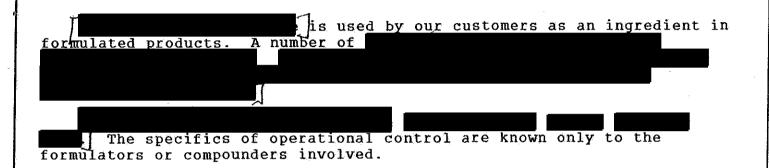
Section B — INDUSTRIAL SITES CONTROLLED BY OTHERS

Complete section B for each type of processing or use operation involving the new chemical substance at sites you do not control.

To claim information in this section as confidential, circle or bracket the specific information that you claim as confidential.

Operation description

Describe the typical processing or use operation. Identify the unit operation steps which may occur during the operation. Estimate the number of sites at which the operation is likely to occur. Identify situations in which worker exposure to and/or environmental release of the new chemical substance may occur. Estimate the percent of new chemical substance as formulated in products manufactured for commercial purposes in the operation or as used in the operation. Estimate the number of workers exposed and the duration of exposure. Identify controls which limit worker exposure and environmental release if typically used. Identify byproducts which may result from the operation.



Part III - LIST OF ATTACHMENTS

Attach continuation sheets for sections of the form and test data and other data (including physical/chemical properties and structure/activity information), and optional information after this page. Clearly identify the attachment and the section of the form to which it relates, if appropriate. Number consecutively the pages of the attachments. In the column below, enter the inclusive page numbers of each attachment.

Mark (X) the "Confidential" box next to any attachment name you claim as confidential. Read the Instructions Manual for guidance on how to claim any information in an attachment as confidential. You must include with the sanitized copy of the notice form a sanitized version of any attachment in which you claim information as confidential.

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	Attachment name	Attachment	Confi-
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į	Mark (X) this box if you attach a continuation sheet. Enter the attachment name and number.		

APPENDIX B

PHYSICAL AND CHEMICAL PROPERTIES WORKSHEET

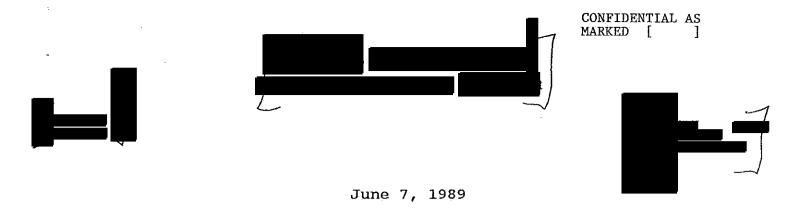
To assist EPA's review of physical and chemical properties data, please complete the following worksheet for data you provide and include it in the notice. Identify the property measured, the page of the notice on which the property appears, the value of the property, the units in which the property is measured (as necessary), and whether or not the property is claimed as confidential. You are not required to submit this worksheet; however, EPA recommends that you do so, as it will simplify review and ensure that confidential information is properly protected. You should submit this worksheet as a supplement to your submission of test data. This worksheet is **not** a substitute for submission of test data.

Property (a)	Mark (X) if provided	Page number (b)	Value (c)	Confidential Mark (X) (d)
1. Vapor pressure @ Temperature°C		(U)	torr	107
2. Density/relative density			g/c ³	
4. Melting temperature				
5. Boiling/sublimation temperature			°C	<u> </u>
6. Spectra				
7. Dissociation constant				
8. Particle size distribution				
9. Octanol/water partition coefficient		<u></u>		
10. Henry's Law constant				
11. Volatilization from water				
12. Volatilization from soil				
13. pH				· · · · · · · · · · · · · · · · · · ·
14. Flammability				
15. Explodability				
16. Adsorption/desorption 17. Other — Specify.				
-				
18.				
19.				
20.				
21.				
22.			-	

TOXICITY SUMMARY

has been tested in a series of acute toxicity studies and in the Ames Salmonella mutagenicity assay. The compound was practically nontoxic to rats and rabbits on oral or dermal exposure, respectively (Rat Oral LD50 > 5000 mg/kg, Rabbit Dermal LD50 > 2000 mg/kg).

was non-irritating to the skin or eyes of rabbits. It was negative in the Ames Salmonella assay using the five standard strains both with and without activation.



HEALTH RISK EVALUATION

has evaluated the health risks presented 7 We conclude by the manufacturing of this new chemical substance will not present unreasonable risk of injury to health. Acute toxicology studies indicate the compound has a very low order of toxicity. In addition, essentially no exposure will occur because the material will be manufactured and handled in a closed system. The only potential exposures are during activities related to quality control sampling, product packaging, and process equipment cleaning. During these times, industrial hygiene practices will protect against worker overexposure. Employees engaged in collection of quality control samples will wear hand and eye protection. Workers engaged in packaging and cleaning will use disposable coveralls, dust respirators, gloves and eye protection. believe these measures will provide adequate protection against overexposure.